Basic Details:

- **Name:** Dr. J. Jansi Rani
- **Designation**: Assistant Professor
- **Phone Number:** 9941686195
- **Email ID:** jansiraj@srmist.edu.in
- **Area or Subject:** Mathematics
- **Affiliation**: Faculty of Engineering and Technology,
  Department of Mathematics,
  SRM Institute of Science and Technology, Ramapuram Campus,
  Chennai- 600 089.
- **Scopus ID:** 58018965100
- **Orcid ID**: 0000-0003-3301-7573

Educational Details:

- **Degree, University, Awarded Year**

  - **B.Sc. Mathematics** – 2005, Dr.Ambedkar Govt.Arts and Science College, University of Madras, Chennai.
  - **M.Sc. Mathematics** – 2007, Pachaiyappas College, University of Madras, Chennai.
  - **M.Phil. Mathematics** – 2009, Sri Venkateswara University, Tirupati.
  - **Ph.D**. – (2020-2024), Vellore Institute of Technology, Chennai.

Research Interests:

Fuzzy set theory, Intuitionistic fuzzy sets and its generalization, Transportation problems, Operations research.

Publications:

- **J. Jansi Rani** and A. Manivannan, (2024). "An application of generalized symmetric type-2 intuitionistic fuzzy variables to a transportation problem with the effect of a new ranking function." Expert Systems with Applications. 237, 121384. [**Impact Factor: 7.5**] https://doi.org/10.1016/j.eswa.2023.121384, ISSN:0957-4174.
- **J. Jansi Rani**, A. Manivannan and S. Dhanasekar, (2023). "Interval valued intuitionistic fuzzy diagonal optimal algorithm to solve transportation problems." International Journal of Fuzzy Systems. 25, 1465-1479. [**Impact Factor: 3.6**] https://doi.org/10.1007/s40815-022-01446-1, ISSN:1562-2479.
- **J. Jansi Rani**, S. Dhanasekar, David Raj Micheal and A. Manivannan, (2023). "On solving fully intuitionistic fuzzy transportation problem via branch and bound technique." Journal of Intelligent & Fuzzy Systems. 44(4), 6219-6229. [**Impact Factor:1.7**] https://doi.org/10.3233/JIFS-221345, ISSN:1875-8967.
- S. Dhanasekar, **J. Jansi Rani**, and A. Manivannan, (2022). "Transportation problem for interval valued trapezoidal intuitionistic fuzzy numbers." International Journal of Fuzzy Logic and Intelligent Systems. 22(2), 155-168, [**Impact Factor:1.5**] https://doi.org/10.5391/IJFIS.2022.22.2.155, ISSN:1598-2645.
- **J. Jansi Rani**, A. Manivannan and S. Dhanasekar, (2022). "A branch and bound approach for solving interval valued intuitionistic fuzzy assignment problem." AIP Conference Proceedings. 2516, 200021. [**Scopus**] https://doi.org/10.1063/5.0108972, ISSN:1551-7616.
- **J. Jansi Rani**, A. Manivannan and S. Dhanasekar, (2023). "A modified fuzzy Hungarian method for unbalanced fuzzy assignment problem with multiple jobs." Nova Science Publishers. 121-130. [**Scopus**] http://doi.org/10.52305/WGNU9162, ISBN: 979-8-88697-547-5.
- **J. Jansi Rani**, S. Dhanasekar and A. Manivannan, (2025). Solving travelling salesman problem using dynamic programming under extended fuzzy environment. Springer Book Chapter (Accepted).

Academic Experience:

- Guest Lecturer, Govt.Arts College for Men, Nandhanam, Chennai (Jan 2008 – April 2010).
- Assistant Professor, New Royal College of Engineering and Technology, Mahabalipuram, Chennai (June 2010- Aug 2011).
- Assistant Professor, Meenakshi College of Engineering, West KK Nagar, Chennai. (Sep 2012- Jan 2020).

Memberships: International Association of Engineers (IAENG).